

WHAT IS CLAIMED IS:

1. An extension structure, comprising:

a main body;

a drive rod movably mounted in the main body;

an elastic member mounted in the main body and urged between the main body and the drive rod; and

a rotation control member rotatably mounted on the main body and rested on the drive rod, so that the drive rod is moved in the main body by rotation of the rotation control member.

2. The extension structure in accordance with claim 1, wherein:

the main body has an inside formed with a receiving chamber and has a peripheral wall formed with a circular shaft hole communicated with the receiving chamber;

the drive rod is movably mounted in the receiving chamber of the main body and has an end formed with an operation slot aligning with the shaft hole of the main body; and

the rotation control member includes a circular rotation body rotatably mounted in the shaft hole of the main body, a knob mounted on a first side of the rotation body and protruded outward from the main body, a circular drive section mounted on a second side of the rotation body and received in the operation slot of the drive rod, and a circular enlarged head mounted on a distal

1 end of the drive section and protruded outward from and rested on a peripheral
2 wall of the drive rod.

3 3. The extension structure in accordance with claim 2, wherein the
4 shaft hole of the main body is extended into the receiving chamber and has a
5 side formed with a recessed closed wall, and the enlarged head of the rotation
6 control member is rotatably mounted in the closed wall of the shaft hole of the
7 main body.

8 4. The extension structure in accordance with claim 2, wherein the
9 enlarged head of the rotation control member has a diameter greater than that
10 of the drive section.

11 5. The extension structure in accordance with claim 2, wherein the
12 operation slot of the drive rod has a shape of a keyhole.

13 6. The extension structure in accordance with claim 2, wherein the
14 operation slot of the drive rod has a first end formed with a passage portion and
15 a second formed with a positioning portion, and the drive section of the
16 rotation control member is extended through the passage portion of the
17 operation slot and inserted into the positioning portion of the operation slot.

18 7. The extension structure in accordance with claim 6, wherein the
19 passage portion of the operation slot has a diameter greater than that of the
20 enlarged head of the rotation control member.

1 8. The extension structure in accordance with claim 6, wherein the
2 positioning portion of the operation slot has a width smaller than the diameter
3 of the passage portion.

4 9. The extension structure in accordance with claim 6, wherein the
5 positioning portion of the operation slot has a width equal to the diameter of
6 the drive section of the rotation control member.

7 10. The extension structure in accordance with claim 6, wherein the
8 drive section of the rotation control member is slidable in the positioning
9 portion of the operation slot by restriction of the enlarged head of the rotation
10 control member.

11 11. The extension structure in accordance with claim 2, wherein the
12 rotation body of the rotation control member formed with a recessed oblique
13 guide face, and the operation slot of the drive rod has a distal end formed with
14 an oblique guide edge rested on the guide face of the rotation control member.

15 12. The extension structure in accordance with claim 11, wherein the
16 rotation body of the rotation control member is rotatable between a first
17 position where the guide face of the rotation body is aligned with and rested on
18 the guide edge of the drive rod and a second position where a peripheral wall of
19 the rotation body is aligned with and rested on the guide edge of the drive rod
20 to move the drive rod.

21 13. The extension structure in accordance with claim 2, wherein the
22 receiving chamber of the main body has a distal end formed with a closed wall,

1 and the elastic member is mounted in the receiving chamber of the main body
2 and is biased between the closed wall of the receiving chamber and the second
3 end of the drive rod.

4 14. The extension structure in accordance with claim 2, wherein the
5 main body has an end formed with a rectangular locking end having a
6 peripheral wall formed with a ball receiving hole communicating with the
7 receiving chamber, and a locking ball is movably mounted in the ball receiving
8 hole.

9 15. The extension structure in accordance with claim 14, wherein the
10 drive rod has the other end formed with an arcuate push recess that is movable
11 to align with the ball receiving hole of the main body for receiving the locking
12 ball.